IN THE CLAIMS:

- 1-11. (Cancelled).
- 12. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming a semiconductor film comprising amorphous silicon over an insulating surface;

forming an insulating film on said semiconductor film;

crystallizing at least <u>an entire</u> [[a]] channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode on said gate insulating film; and

forming source and drain regions in said semiconductor film by ion doping through said gate insulating film.

- 13. (Previously Presented) A method according to claim 37 wherein said channel formation region is substantially intrinsic type or p-type.
 - 14. (Cancelled).
- 15. (Original) A method according to claim 12 wherein said source and drain regions are formed by said ion doping with at least one of phosphorus and boron.
- 16. (Previously Presented) A method according to claim 58, wherein said channel formation region is substantially intrinsic type or p-type.
- 17. (Original) A method according to claim 12 wherein said semiconductor film comprising amorphous silicon has a thickness of 50 to 150 nm.

18. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming a semiconductor film comprising amorphous silicon over an insulating surface;

forming an insulating film on said semiconductor film;

crystallizing at least <u>an entire</u> [[a]] channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode on said gate insulating film, said gate electrode having tapered side edges; and

forming source and drain regions in said semiconductor film by ion doping,

wherein said channel formation region between said source and drain region has a first length at a surface being in contact with said gate insulating film and a second length at a surface being in contact with said insulating surface, and said first length is shorter than said second length.

- 19. (Previously Presented) A method according to claim 41 wherein said channel formation region is substantially intrinsic type or p-type.
 - 20. (Cancelled).
- 21. (Original) A method according to claim 18 wherein said source and drain regions are formed by said ion doping with at least one of phosphorus.
- 22. (Original) A method according to claim 18 wherein said semiconductor film comprising amorphous silicon has a thickness of 50 to 150 nm.
- 23. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming a semiconductor film comprising amorphous silicon over an insulating surface;

forming an insulating film on said semiconductor film;

crystallizing at least [[a]] <u>an entire</u> channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode comprising aluminum on said gate insulating film; and forming source and drain regions in said semiconductor film by ion doping through said gate insulating film.

24. (Previously Presented) A method according to claim 55 wherein said channel formation region is substantially intrinsic type or p-type.

25. (Cancelled)

- 26. (Original) A method according to claim 23 wherein said source and drain regions are formed by said ion doping with at least one of phosphorus and boron.
- 27. (Original) A method according to claim 18 wherein said gate electrode is performed by a wet etching.
- 28. (Previously Presented) A method according to claim 23 wherein said semiconductor film comprising amorphous silicon has a thickness of 50 to 150 nm.
- 29. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming a semiconductor film comprising amorphous silicon over an insulating surface:

forming an insulating film on said semiconductor film;

introducing boron into at least a portion of said semiconductor film through said insulating film, said portion to become at least a channel formation region;

crystallizing at least said an entire channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode on said gate insulating film; and forming source and drain regions in said semiconductor film by ion doping.

- 30. (Previously Presented) A method according to claim 29 wherein said channel formation region is substantially intrinsic type or p-type.
- 31. (Original) A method according to claim 29 wherein said source and drain regions are formed by said ion doping with at least one of phosphorus and boron.
- 32. (Previously Presented) A method according to claim 29 wherein said forming said gate electrode is performed by a wet etching.
- 33. (Original) A method according to claim 29 wherein said semiconductor film comprising amorphous silicon has a thickness of 50 to 150 nm.
- 34. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming at least two active matrix panels over a substrate, a method for fabricating each of said active matrix panels comprising:

forming a semiconductor film on an insulating surface;

forming an insulating film on said semiconductor film;

crystallizing at least [[a]] <u>an entire</u> channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode on said gate insulating film;

forming source and drain regions in said semiconductor film by ion doping; and cutting said substrate into at least two portions to obtain said at least two active matrix panels.

- 35. (Previously Presented) A method according to claim 34 wherein said source and drain regions are formed by said ion doping with at least one of phosphorous and boron.
- 36. (Previously Presented) A method according to claim 34 wherein said semiconductor film has a thickness of 50 to 150 nm.
- 37. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming a semiconductor film over an insulating surface;

forming an insulating film on said semiconductor film;

introducing boron into at least a portion of said semiconductor film through said insulating film, said portion to become at least a channel formation region;

crystallizing at least said an entire channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode on said gate insulating film, said gate electrode having tapered side edges; and

forming source and drain regions in said semiconductor film by ion doping,

wherein said channel formation region between said source and drain region has a first length at a surface being in contact with said gate insulating film and a second length at a surface being in contact with said insulating surface, and said first length is shorter than said second length.

- 38. (Previously Presented) A method according to claim 37 wherein said source and drain regions are formed by said ion doping with at least one phosphorus and boron.
- 39. (Previously Presented) A method according to claim 37 wherein said semiconductor film has a thickness of 50 to 150 nm.
- 40. (Previously Presented) A method according to claim 37 wherein said forming said gate electrode is performed by a wet etching.
- 41. (Currently Amended) A method for fabricating a semiconductor device, comprising the steps of:

forming a semiconductor film over an insulating surface;

forming an insulating film on said semiconductor film;

introducing boron into at least a portion of said semiconductor film through said insulating film, said portion to become at least a channel formation region;

crystallizing at least said an entire channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film by wet etching;

forming a gate insulating film on said semiconductor film after said removing said insulating film;

forming a gate electrode comprising aluminum on said gate insulating film;

forming source and drain regions in said semiconductor film by ion doping through said gate insulating film.

- 42. (Previously Presented) A method according to claim 41 wherein said source and drain regions are formed by said ion doping with at least one of phosphorus and boron.
- 43. (Previously Presented) A method according to claim 41 wherein said semiconductor film has a thickness of 50 to 150 nm.

44-45. (Cancelled).

- 46. (Previously Presented) A method according to claim 12 wherein said insulating film has a thickness of 10-500 nm.
- 47. (Previously Presented) A method according to claim 18 wherein said insulating film has a thickness of 10-500 nm.
- 48. (Previously Presented) A method according to claim 23 wherein said insulating film has a thickness of 10-500 nm.
- 49. (Previously Presented) A method according to claim 29 wherein said insulating film has a thickness of 10-500 nm.
- 50. (Previously Presented) A method according to claim 34 wherein said insulating film has a thickness of 10-500 nm.
- 51. (Previously Presented) A method according to claim 37 wherein said insulating film has a thickness of 10-500 nm.
- 52. (Previously Presented) A method according to claim 41 wherein said insulating film has a thickness of 10-500 nm.
- 53. (Currently Amended) A method for fabricating a thin film transistor of a pixel portion in a semiconductor device, said semiconductor device having at least one thin film transistor comprising a semiconductor film formed adjacent to a gate electrode with a gate insulating film therebetween, said method comprising the steps of:

forming said semiconductor film over a substrate;

forming an insulating film on said semiconductor film;

crystallizing at least [[a]] <u>an entire</u> channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film; and

forming source and drain regions in said semiconductor film by ion doping, wherein said gate insulating film is formed using TEOS.

- 54. (Previously Presented) A method according to claim 53, wherein said semiconductor film has a thickness of 50 to 150 nm.
- 55. (Currently Amended) A method for fabricating a thin film transistor of a pixel portion in a semiconductor device, said semiconductor device having at least one thin film transistor comprising a semiconductor film formed adjacent to a gate electrode with a gate insulating film therebetween, said method comprising the steps of:

forming said semiconductor film over a substrate;

forming an insulating film on said semiconductor film;

introducing boron into at least a portion of said semiconductor film through said insulating film, said portion becoming at least a channel formation region of said thin film transistor;

crystallizing at least said an entire channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film; and

forming source and drain regions in said semiconductor film by ion doping, wherein said gate insulating film is formed using TEOS.

- 56. (Previously Presented) A method according to claim 55, wherein said semiconductor film has a thickness of 50 to 150 nm.
- 57. (Previously Presented) A method according to claim 55, wherein said source and drain regions are formed by said ion doping with at least one of phosphorus and boron.
- 58. (Currently Amended) A method for fabricating a semiconductor device[, said semiconductor device having at least one thin film transistor comprising a crystalline semiconductor film formed adjacent to a gate electrode with a gate insulating film therebetween, said method comprising the steps of:

forming at least two active matrix panels over a substrate, a method for fabricating each of said active matrix panels comprising:

forming a semiconductor film comprising amorphous silicon over a substrate;

forming an insulating film on said semiconductor film;

introducing boron into at least a portion of said semiconductor film through said insulating film, said portion becoming at least a channel formation region of said thin film transistor;

crystallizing at least said an entire channel formation region of said semiconductor film by laser irradiation through said insulating film;

removing said insulating film;

forming a gate insulating film on said semiconductor film;

forming a gate electrode on said insulating film;

forming source and drain regions in the said semiconductor film by ion doping; and

cutting said substrate into at least two portions to obtain two active matrix panels.

- 59. (Cancelled).
- 60. (Previously Presented) A method according to claim 58, wherein said semiconductor film has a thickness of 50 to 150 nm.
- 61. (Previously Presented) A method according to claim 58, wherein said source and drain regions are formed by said ion doping with at least one of phosphorus and boron.
 - 62-64. (Cancelled).
- 65. (Previously Presented) A method according to claim 58 wherein said gate insulating film comprises TEOS.
- 66. (Previously Presented) A method according to claim 18 wherein said gate insulating film comprises TEOS.

- 67. (Previously Presented) A method according to claim 23 wherein said gate insulating film comprises TEOS.
- 68. (Previously Presented) A method according to claim 29 wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 69. (Previously Presented) A method according to claim 34 wherein said gate insulating film comprises TEOS.
- 70. (Previously Presented) A method according to claim 37 wherein said gate insulating film comprises TEOS.
- 71. (Previously Presented) A method according to claim 41 wherein said gate insulating film comprises TEOS.

72-74. (Cancelled).

- 75. (Previously Presented) A method according to claim 12 wherein said semiconductor device is a liquid crystal display.
- 76. (Previously Presented) A method according to claim 18 wherein said semiconductor device is a liquid crystal display.
- 77. (Previously Presented) A method according to claim 23 wherein said semiconductor device is a liquid crystal display.
- 78. (Previously Presented) A method according to claim 29 wherein said semiconductor device is a liquid crystal display.

- 79. (Previously Presented) A method according to claim 34 wherein said semiconductor device is a liquid crystal display.
- 80. (Previously Presented) A method according to claim 37 wherein said semiconductor device is a liquid crystal display.
- 81. (Previously Presented) A method according to claim 41 wherein said semiconductor device is a liquid crystal display.
- 82. (Previously Presented) A method according to claim 53 wherein said semiconductor device is a liquid crystal display.
- 83. (Previously Presented) A method according to claim 55 wherein said semiconductor device is a liquid crystal display.
- 84. (Previously Presented) A method according to claim 58 wherein said semiconductor device is a liquid crystal display.
- 85. (Previously Presented) A method according to claim 53, wherein said insulating film has a thickness of 10-500 nm.
- 86. (Previously Presented) A method according to claim 55, wherein said insulating film has a thickness of 10-500 nm.
- 87. (Previously Presented) A method according to claim 58, wherein said insulating film has a thickness of 10-500 nm.
- 88. (Previously Presented) A method according to claim 12, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.

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- 89. (Previously Presented) A method according to claim 18, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 90. (Previously Presented) A method according to claim 23, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 91. (Previously Presented) A method according to claim 34, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 92. (Previously Presented) A method according to claim 37, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 93. (Previously Presented) A method according to claim 41, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 94. (Previously Presented) A method according to claim 53, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 95. (Previously Presented) A method according to claim 55, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.
- 96. (Previously Presented) A method according to claim 58, wherein said semiconductor film is irradiated through said gate insulating film and said gate electrode after forming source and drain regions.